## INTERNATIONAL SEARCH REPORT

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International application No.
PCT/JP03/07324

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	SIFICATION OF SUBJECT MATTER .Cl <sup>7</sup> B62D5/04, B62D3/12, F16H1	9/04		
1110.	.ci B02D3/04, B02D3/12, F10H1	<i>3</i> 704		
	to International Patent Classification (IPC) or to both n	ational classification and IPC		
9	S SEARCHED			
	ocumentation searched (classification system followed C1 B62D3/00-5/32, F16H19/04	by classification symbols)		
	20220,00 0,02, 120000,00			
Documentat	tion searched other than minimum documentation to th	e extent that such documents are included	in the fields searched	
Jits	uyo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2003	Jitsuyo Shinan Toroku Koh	0 1996-2003	
1				
Electronic d	lata base consulted during the international search (nam	ne of data base and, where practicable, sea	rch terms used)	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Catagory*	Citation of document, with indication, where or	parapriate of the relevant percents	Relevant to claim No.	
Category*	Citation of document, with indication, where ap	opropriate, of the relevant passages		
X A	US 4116085 A (Bishop), 26 September, 1978 (26.09.78)	) <u>.</u>	1,5-7 2-4	
	Full text; Figs. 1 to 5	, ,		
	& JP 52-91229 A			
	Full text; Figs. 1 to 5			
. X	JP 55-24262 A (Asa Anesuto E		1-7	
	21 February, 1980 (21.02.80),	•		
	Full text; Figs. 1 to 6 (Family: none)			
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Х	JP 6-40540 Y2 (Nissan Motor 26 October, 1994 (26.10.94),	Co., Ltd.),	1-7	
	Full text; Figs. 1 to 5		:	
	(Family: none)			
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "T" later document published after the international filing date or				
"A" docume	ent defining the general state of the art which is not	priority date and not in conflict with the	ne application but cited to	
considered to be of particular relevance understand the principle or theory underlying the invention "E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention			claimed invention cannot be	
	ent which may throw doubts on priority claim(s) or which is	considered novel or cannot be conside step when the document is taken alone	:	
special	establish the publication date of another citation or other reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive ste		
"O" docume means	ent referring to an oral disclosure, use, exhibition or other	combined with one or more other such	bined with one or more other such documents, such bination being obvious to a person skilled in the art	
"P" docume	ent published prior to the international filing date but later e priority date claimed	"&" document member of the same patent		
	actual completion of the international search	Date of mailing of the international search		
20 A	ugust, 2003 (20.08.03)	02 September, 2003	(02.09.03)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Faccimile No	•	Telephone No.		

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International application No.
PCT/JP03/07324

ntegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-234448 A (Koyo Seiko Co., Ltd.),	1-7
	20 August, 2002 (20.08.02), Full text; Figs. 1 to 7 (Family: none)	
A	EP 0934863 A1 (Oiles America Corp.), 08 November, 1999 (08.11.99), Full text; Figs. 1 to 5 & JP 11-286277 A Full text; Figs. 1 to 5	1-7
Α	JP 2002-2507 A (Koyo Seiko Co., Ltd.), 09 January, 2002 (09.01.02), Full text; Figs. 1 to 7 (Family: none)	1-7
A	JP 6-239247 A (Jidosha Kiki Co., Ltd.), 30 August, 1994 (30.08.94), Full text; Figs. 1 to 2 (Family: none)	1-7
A	US 5927429 A (Sugino et al.), 27 July, 1999 (27.07.99), Full text; Figs. 1 to 8 & JP 11-11333 A Full text; Figs. 1 to 7	1-7